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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/563,446	01/04/2006	Ikuo Shimoda	1207-131	8048
23117 NIXON & VAN	7590 02/25/200 NDERHYE, PC	EXAMINER		
901 NORTH G	LEBE ROAD, 11TH F	BURCH, MELODY M		
ARLINGTON, VA 22203			ART UNIT	PAPER NUMBER
			3683	
			MAIL DATE	DELIVERY MODE
			02/25/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/563,446	SHIMODA ET AL.	
Office Action Summary	Examiner	Art Unit	
	Melody M. Burch	3683	
The MAILING DATE of this communication ap Period for Reply	opears on the cover sheet with the o	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING IDENTIFY OF THE MORE OF T	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on <u>04.</u> 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allowed closed in accordance with the practice under	is action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 1-13 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdres 5) Claim(s) is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/ Application Papers	awn from consideration. /or election requirement.		
 9) The specification is objected to by the Examir 10) The drawing(s) filed on <u>04 January 2006</u> is/ar Applicant may not request that any objection to the Replacement drawing sheet(s) including the corre 11) The oath or declaration is objected to by the Examination 	re: a)⊠ accepted or b)⊡ objected e drawing(s) be held in abeyance. Se ction is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).	
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burest * See the attached detailed Office action for a list 	nts have been received. nts have been received in Applicat ority documents have been receive au (PCT Rule 17.2(a)).	ion No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5445249 to Aida et al. in view of US Patent 4705982 to Besson et al.

Re: claims 1-8. Aida et al. show in figure 2 a dynamic vibration absorber comprising: a weight 1, a frame body 3 which surrounds the weight, a plurality of vertically mounted members 10,11,12 which are interposed between the frame body and the weight so as to hold the weight with respect to the frame body movably with respect to all directions in a plane and immovably in a vertical direction perpendicular to the plane as disclosed in col. 5 line 66 - col. 6 line 1, and a damping mechanism 2,6 for damping the vibration of the weight in the plane.

Aida et al. are silent with regards to the vertically mounted members being U-shaped leaf spring.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the vertically mounted members of Aida et al. to

have been U-shaped leaf springs, as taught by Aida et al., in order to provide a functionally equivalent means of creating a damping force which acts on the weight 1.

4. Claims 9-13 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5445249 to Aida et al. in view of US Patent 4705982 to Besson et al. as applied to claim 1 above, and further in view of US Patent 2004/0134733 to Wood.

Aida et al., as modified, are silent with regards to the tuning of the system.

Wood teaches in paragraph [0017] and in figure 2 the use of a dynamic absorber being tuned to a natural frequency of a structure where the dynamic vibration is installed and also teaches the use of a plurality of dynamic vibration absorbers wherein a natural frequency of the weight, the mass of the weight, the spring constant or the damping coefficient of at least one of the dynamic vibration absorbers is different from that of another.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the tuning of the system of Aida et al., as modified, to have included the abovementioned tuning arrangement, as taught by Wood, in order to provide a guieter machine or system.

Conclusion

5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. US Patents: 6286782 to Bansemir et al., 5052529 to Sutcliffe et al., 989958 to Frahm, 5595430 to Weyeneth and foreign reference JP-6098589 teach the use of vibration absorbers having a frame body surrounding a weight and damping members interposed between the frame body and the weight.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Melody M. Burch whose telephone number is 571-272-7114. The examiner can normally be reached on Monday-Friday (6:30 AM-3:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert Siconolfi can be reached on 571-272-7124. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

mmb February 15, 2008

/Melody M. Burch/ Primary Examiner, Art Unit 3683